THE JOHNS HOPKINS UNIVERSITY
BALTIMORE, MARYLAND

CONFERRING OF DEGREES

AT THE CLOSE OF THE SEVENTY-FIFTH ACADEMIC YEAR

JUNE 12, 1951

GILMAN HALL TERRACE

AT TEN A. M.

ORDER OF PROCESSION

CHIEF MARSHAL

Henry T. Rowell

Divisions	*Marshals*
1. The President of the University, the Chaplain, Honored Guests, the Trustees	Fritz Machlup
2. The Faculty	Malcolm C. Moos
3. The Graduates	Howard E. Cooper Walter C. Boyer Hans W. Gatzke Walter W. Ewell John M. Kopper Acheson J. Duncan Richard M. Alt Richard A. Mumma Gilbert F. Otto Barnett Cohen J. Harvey Wheeler

USHERS

John H. Berbert
Lane B. Carpenter
William R. Fonshell
Harry Austin Fox
Mathew H. M. Lee
Bernard F. McGuigan
Robert H. Scott
R. Champlin Sheridan
Charles E. Wagner
Donald G. Warner

ORGANIST

John H. Eltermann

The audience is requested to stand as the academic procession moves into the area and remain standing until after the Invocation.

ORDER OF EXERCISES

I

PROCESSIONAL

March from "Euryanthe" by Von Weber

II

INVOCATION

CANON HAROLD N. ARROWSMITH
Cathedral of the Incarnation

III

ADDRESS TO GRADUATES

THE PRESIDENT OF THE UNIVERSITY

IV

CONFERRING OF HONORARY DEGREES

Dr. ALEXANDER GRAHAM CHRISTIE — presented by Professor ROY
Dr. RAYMOND DEXTER HAVENS — presented by Professor MALONE
Dr. ARTHUR ONCKEN LOVEJOY — presented by Professor BOAS
Dr. JOHN BOSWELL WHITEHEAD — presented by Professor DIEKE
Dr. ROBERT WILLIAMS WOOD — presented by Professor HAMBURGER

V

CONFERRING OF DEGREES

Bachelors of Arts — presented by Dean COX

Bachelors of Engineering — presented by Dean KOUWENHOVEN
Bachelors of Science in Engineering
Masters of Science in Engineering
Masters of Engineering
Doctors of Engineering

Bachelors of Science in Business — presented by Dean HAWKINS

Bachelors of Science — presented by Dean HORN
Bachelors of Science in Nursing
Masters of Education
Doctors of Education

Masters of Science in Hygiene — presented by Professor STEBBINS
Doctors of Science in Hygiene
Masters of Public Health
Doctors of Public Health

Doctors of Medicine — presented by Dean CHESNEY

Masters of Arts, School of Advanced International Studies — presented by Dean THAYER

Masters of Arts — presented by Professor LANCASTER
Doctors of Philosophy

VI

BENEDICTION

VII

RECESSIONAL

"Coronation Anthem" by Handel

The audience is requested to remain standing after the Benediction until the graduates have left the area.

CANDIDATES FOR DEGREES

BACHELORS OF ARTS

Albert Severin Anderson, of Westport, Conn.
* David Lee Arenberg, of Baltimore, Md.
John Joseph Auer, of Baltimore, Md.
* George Kohler Baer, of Baltimore, Md.
Richard Anthony Bafford, of Baltimore, Md.
* John Marshall Balder, of Baltimore, Md.
Navy F. X. Banvard, Jr., of Baltimore, Md.
* John Simmons Barth, of Cambridge, Md.
Lester Thomas Beall, Jr., of Brookfield Center, Conn.
Alan Joyce Bearden, of Baltimore, Md.
Thomas Timothy Bednarek, of Berlin, Wis.
* Robert Irving Berg, of Baltimore, Md.
Rudolph Boisvert, Jr., of Woonsocket, R. I.
* Albert Bennett Bradley, of Baltimore, Md.
John Thomas Brooks, of Baltimore, Md.
Owen Arthur Brooks, of Nutley, N. J.
George Marcus Brown, of Valley Stream, N. Y.
William Hugh Buckman, of Baltimore, Md.
Harry Marshall Burdette, Jr., of Baltimore, Md.
* Walter Dean Burnham, of Baltimore, Md.
John Andrew Burns, of Baltimore, Md.
William Moore Burns, of Baltimore, Md.
William John Carroll, of Sparks, Md.
Joseph Carl Castellano, of Brooklyn, N. Y.
Robert Allison Champlain, of Baltimore, Md.
Kenneth Chinn, of Honolulu, Hawaii
William Floyd Clinger, of Warren, Pa.
Richard Gilmore Coblentz, Jr., of Baltimore, Md.
Remo John Colarusso, of Newark, N. J.
* John Joseph Collins, of Morrisville, Pa.
* William Stephen Coppage, Jr., of Baltimore, Md.
* Harry August Debelius, of Baltimore, Md.
Donald Howard Dembo, of Baltimore, Md.
August Adam Denhard, Jr., of Randallstown, Md.
James Baker Donnelly, of Baltimore, Md.
James Berryman Eisel, of Baltimore, Md.
* Felix Falk, of Baltimore, Md.
* William Joseph Fenza, Jr., of Ridley Park, Pa.
Richard Steffen Fish, of Fort Lauderdale, Fla.
Milton Charles Fisher, of Baltimore, Md.
William Byron Forbush, II, of Baltimore, Md.
Samuel Lyles Freeland, of Easton, Md.
George Hamilton Friskey, of Baltimore, Md.
* Gerald Drexler Garston, of Waterbury, Conn.
David Leedom German, of Philadelphia, Pa.
George Travers Gilmore, of Baltimore, Md.
John Ellis Gimbel, of Miami Beach, Fla.
Theodore Philip Goldstein, of Baltimore, Md.
* Solomon Wolf Golomb, of Baltimore, Md.
Gary Swan Goshorn, of Baltimore, Md.
* Peter Joseph Gouras, of Brooklyn, N. Y.
Zade Whitlock Green, of Fall Brook, Calif.
John Clarke Griffin, of Baltimore, Md.
Lester Morton Grotz, of Baldwin, N. Y.
Donald Edmondson Heathcote, of Wayzata, Minn.
Alvin Wilfred Hecker, of Baltimore, Md.
James MacDonald Henderson, of Gilroy, Calif.
Calvin David Hewitt, of Coggon, Iowa
Edwin Gilmore Higgins, of Baltimore, Md.
John Ryland Hinrichs, of Riderwood, Md.
Harry Lee Hoffman, III, of Cockeysville, Md.
Alan Frederick Hofmann, of Hyattsville, Md.
Richard Bernard Hornick, of Johnstown, Pa.
Thomas Hicks Hubbard, of Baltimore, Md.
Charles Fletcher Hughes, Jr., of Baltimore, Md.
* Samuel Joseph Hunter, of Frostburg, Md.
Frank Anthony Iula, of Vineland, N. J.
Paul Lane Ives, Jr., of Chester, Pa.
James Moffett Jaeger, of Larchmont, N. Y.
George William Jenkins, II, of Memphis, Tenn.
Eran John Jurrius, of Curacao, Netherlands W. Indies
George Karman, Jr., of Baltimore, Md.
Douglas Chaplin Kearns, of Baltimore, Md.
David Charles Keegan, of Elgin, Ill.
* Edward Sullivan Keller, of Baltimore, Md.
John Richard Keogh, of New Britain, Conn.
* Jules P. Kirsch, of Baltimore, Md.
* John Cornelius Kistler, of Baltimore, Md.
Bernard Kramer, of Baltimore, Md.
Allan deGolier Lamprell, of Baltimore, Md.
Raymond Joyce Landon, Jr., of Middletown, Pa.
Wilton Lawrence Laque, of Baltimore, Md.
Charles Richard Lehnert, of Towson, Md.
Jay Milford Levy, of Baltimore, Md.
William Asa Little, of Monticello, N. Y.
Martin Eugene Litz, of Baltimore, Md.
David Elmo Livingston, of Portsmouth, Ohio

* Graduating with departmental honors.

Jerome Harry Lowengard, of Pikesville, Md.
Newton Margolis, of Charleston, W. Va.
John Edward McClafferty, of Norwich, Conn.
William L. McFarlane, of Baltimore, Md.
James Jerome McGinty, of St. Petersburg, Fla.
James Lawrence McVay, of Erie, Pa.
Timothy Merz, of Pikesville, Md.
William Middendorf Miller, of Baltimore, Md.
George Gotthold Meyer, of Ingleside, Nebr.
Paul Peter Mitros, of Baltimore, Md.
George Leslie Moler, of Baltimore, Md.
Richard Gritmon Moore, of Poughkeepsie, N. Y.
Ernest Dean Morrow, of Denver, Colo.
Maxwell Keyes Mudge, of Pikesville, Md.
Francis Key Murray, of Baltimore, Md.
William Neill, III, of Baltimore, Md.
Elliot Seth Nelson, of Brooklyn, N. Y.
Richard Anton Nussbaum, of Ambridge, Pa.
David Austin Ohlwiler, of Southbridge, Mass.
Frank Holmes Pardew, of Pittsburgh, Pa.
John Robert Payant, of Pikesville, Md.
John Homer Pearce, Jr., of Monkton, Md.
Hill Dawson Penniman, of Baltimore, Md.
William Russell Perkins, of Pine Grove, Pa.
Alexander Kenneth Petroff, of Baltimore, Md.
John Edwin Pohl, of Baltimore, Md.
Nicholas Pollis, of Baltimore, Md.
Gwynn Marshall Reel, of Sanford, Fla.
* John Thomas Robinson, of Baltimore, Md.
Arnold Lewis Rose, of Union, N. J.
Mason Frederick Rose, of Baltimore, Md.
John Lawrence Rosell, of West Caldwell, N. J.
* Judah Isser Rosenblatt, of Baltimore, Md.
Matthew Reynolds Ryan, of Baltimore, Md.
Jaime Pedro Salinas, of Baltimore, Md.
Benjamin Turner Sankey, Jr., of Baltimore, Md.
Howard Schnoor, of Baltimore, Md.
Edwin Howard Seeger, of Baltimore, Md.
Harry Donald Sierer, of New Castle, Del.
John Oliver Simons, of Frostburg, Md.
Charles McCahan Smyrk, Jr., of Baltimore, Md.
Philip Francis Spartan, of Stamford, Conn.
Charles Walling Spicer, Jr., of Hampstead, Md.
Charles Stabinsky, of Norwalk, Conn.
Robert Martin Stark, of Far Rockaway, N. Y.
Walter Ernest Steidle, of South Salem, N. Y.
Edward Bradley Stellmann, Jr., of Pikesville, Md.
Ashby Gordon Stiff, Jr., of Baltimore, Md.
Karl Edgar Sussman, of Baltimore, Md.
Constantine Theodore Thermenos, of Baltimore, Md.
Alan John Thompson, of Riverton, N. J.
Peter Trueman Thompson, of Mt. Lebanon, Pa.
Albert Franz Torek, of Oxford, Md.
Albert Leroy Trucker, Jr., of Baltimore, Md.
Eli Lincoln Veazey, of Baltimore, Md.
Fernando Giuseppe Vescia, of Italy
George Demosthenes Vlahakis, of Brooklyn, N. Y.
Louis Peter Vlangas, of Baltimore, Md.
Will Walker Ward, Jr., of Frankfort, Ky.
James Donald Warren, of Plainfield, N. J.
Kenneth Clayton Watson, Jr., of Baltimore, Md.
William Gerald Watson, of Harrisburg, Pa.
Palmer Francis Castiglione Williams, Jr., of Pikesville, Md.
Daniel Ira Wincor, of Miami Beach, Fla.
* Robert Milton Worsfold, of Ramsey, N. J.
Lewis Carroll Yingling, Jr., of Baltimore, Md.
Herbert Leonard Yousem, of Baltimore, Md.
Paul Michael Zavell, of Flint, Mich.

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GRADUATING WITH GENERAL HONORS

John Marshall Balder
Robert Irving Berg
Walter Dean Burnham
William Stephen Coppage, Jr.
Felix Falk
Milton Charles Fisher
Gerald Drexler Garston
Solomon Wolf Golomb
Peter Joseph Gouras
Alan Frederick Hofmann
Samuel Joseph Hunter
Edward Sullivan Keller
Jules P. Kirsch
William Asa Little
John Thomas Robinson
Judah Isser Rosenblatt
Benjamin Turner Sankey, Jr.
Will Walker Ward, Jr.
Paul Michael Zavell

*Graduating with departmental honors.

BACHELORS OF ENGINEERING

Constantine Christ Alexion, of Baltimore, Md.
Donald Charles Allebach, of Allentown, Pa.
Robert Hugh Andrew, of Riderwood, Md.
Michael Athas, of Baltimore, Md.
Joseph Thomas Atkins, of Baltimore, Md.
John Carroll Atkinson, of Baltimore, Md.
Robert Benjamin Bartlett, of Baltimore, Md.
Lauren Milford Beyard, of Hagerstown, Md.
Leonard Bloom, of Baltimore, Md.
Henry Clifton Bomhardt, of Baltimore, Md.
Ernest Edward Bortner, Jr., of Baltimore, Md.
James Edwin Breneman, Jr., of Baltimore, Md.
William Harrison Browning, of Mt. Airy, Md.
Vernon Wilson Brumbaugh, of Clayton, Mo.
Charles Bulik, of Baltimore, Md.
Edward Dorsey Burger, of Frederick, Md.
Robert Simon Buxbaum, of Baltimore, Md.
Neroth John Chacko, of Alleppey, S. India
Robert Leroy Church, of Newark, N. J.
Raymond Stephen Collins, of Baltimore, Md.
Nickolas Dominick Depasquale, of Baltimore, Md.
Frank Ralph Dipace, of Bronx, N. Y.
James George Disney, of Baltimore, Md.
Harry William Down, Jr., of Baltimore, Md.
Philip Michael Ehrlich, of Baltimore, Md.
Ned Brant Elliott, of Hagerstown, Md.
Gerald Lee Esterson, of Baltimore, Md.
George Dean Evans, of Baltimore, Md.
Henry Stuckey Flickinger, of Baltimore, Md.
Louis Joseph Galbiati, Jr., of Vineland, N. J.
James Edgar Geyer, of Baltimore, Md.
Richard Leslie Golden, of Baltimore, Md.
John Torsch Gorsuch, Jr., of Baltimore, Md.
Robert Earl Grady, of Savage, Md.
Melvin Gordon Gray, of Baltimore, Md.
Earl Domer Grim, Jr., of Baltimore, Md.
Walter John Gura, of Baltimore, Md.
Walton Milton Hancock, of East McKeesport, Pa.
Joaquim Lewis Heck, of Baltimore, Md.
Joseph Leo Hellman, of Baltimore, Md.
Ralph Clifford Hersh, Jr., of Ridgefield, N. J.
William John Heuer, of Baltimore, Md.
Ray Thomas Hill, of Little Rock, Ark.
Frank William Hlavac, of Baltimore, Md.
Charles Phillip Hoffman, of Baltimore, Md.
Frank Philip Hurka, Jr., of Baltimore, Md.
William J. Hyde, of Baltimore, Md.
Richard Lamond Irwin, of Westminster, Md.
Anthony Michael Jakub, of Elizabeth, N. J.
Tyler Janney, of Nazareth, Pa.
Earle Spencer Johnson, of Baltimore, Md.
Emanuel Francis Kaisler, of Baltimore, Md.
Joseph Jacob Kimmel, of Baltimore, Md.
Robert Ellis Kolb, of Cumberland, Md.
Harvey David Kushner, of Baltimore, Md.
Charles Peter Lach, of Baltimore, Md.
Marc Saul Landau, of Kingston, Pa.
Robert Stanley Leith, of Coronado, Calif.
Edward George Letzkus, of Baltimore, Md.
Ralph Charles Levy, of Baltimore, Md.
Vincent Anthony Maggio, of Houston, Tex.
George Michael Maistros, of Baltimore, Md.
Warren Lee Mann, of Oakland, Md.
Hugh Clement Martin, of Arlington, Va.
Clarence Burnham McComas, Jr., of Millville, N. J.
Marshal Hampton McCord, Jr., of Baltimore, Md.
Herbert Hoover McDonald, of Choptank, Md.
Theodore William McIntosh, of Baltimore, Md.
Thomas Donald McKewen, of Baltimore, Md.
Charles Ridgely McWilliams, of Leonardtown, Md.
Roger Edison Merrill, of Elkton, Md.
Dean George Miller, of Bel Air, Md.
Paul Rex Miller, of Baltimore, Md.
Lars Erik Molander, of Chevy Chase, Md.
Charles Frew Moore, of Baltimore, Md.
Carroll Edgar Morgan, of Baltimore, Md.
Alan David Morris, of Baltimore, Md.
Carl Russel Moyer, of Washington, D. C.
John Smith Murphy, of Woodbine, Pa.
Robert Bennett Naeny, of Baltimore, Md.
Clarence W. Nelson, Jr., of Baltimore, Md.
William Ridgely Nichols, of Baltimore, Md.
Paul Lee Norris, of Baltimore, Md.
Thomas Joseph O'Mara, of Baltimore, Md.
Albion Derr Parsons, of Hampstead, Md.
Robert Arthur Patrick, of Baltimore, Md.
Donald Eugene Paupe, of Cumberland, Md.
Harry John Peters, of Baltimore, Md.
Edwin Robert Phillips, of Kingston, Pa.
Addison Eugene Pieper, of Baltimore, Md.
Alfred Prock, of Baltimore, Md.
Thomas Leonard Reeder, Jr., of Baltimore, Md.
Alfred Michael Reek, of Staten Island, N. Y.
John Kenneth Rippel, of Baltimore, Md.
John William Ritterhoff, of Baltimore, Md.
Earl William Roberts, Jr., of Baltimore, Md.
Donald Edward Roesch, of Baltimore, Md.
Bernard Charles Rossman, of Baltimore, Md.
John Edward Rueckert, of Baltimore, Md.
Philip William Scholtes, of Baltimore, Md.
Charles Leroy Schrader, of Jamaica, N. Y.
George Ellis Schubert, of Baltimore, Md.
William Herman Schwarz, of Baltimore, Md.

Gordon Thomas Service, of Baltimore, Md.
Charles Richard Sheckells, of Baltimore, Md.
Charles Harry Shivery, of North East, Md.
Ralph Benjamin Siegel, of Baltimore, Md.
Clark Irvin Simms, Jr., of Baltimore, Md.
Henry Eugene Sivik, of Reading Pa.
Kenneth Dent Smith, of Baltimore, Md.
Robert Allen Smith, of Baltimore, Md.
Gerald Charles Soukup, of Baltimore, Md.
Marvin Mayer Specter, of Baltimore, Md.
Samuel Day Sutter, of Baltimore, Md.
William Hayward Sutton, Jr., of Bozman, Md.
Stephen Szpatura, of Baltimore, Md.
Morris Melvin Tamres, of Baltimore, Md.
Ernest Joseph Taschenberg, of Cumberland, Md.
Albert Richard Thomas, of Baltimore, Md.
Allen Warren Thompson, of Baltimore, Md.
John James Tierney, of Baltimore, Md.
Douglas Neal Travers, of San Antonio, Tex.
Charles Hudson Trumbo, of Baltimore, Md.
Edward Cornelius Vernon, of Baltimore, Md.
Guilfred William Vogt, of Trenton, N. J.
Ralph Lobmeyr von Hohenleiten, of Baltimore, Md.
Richard Hunter Waters, of Baltimore, Md.
Eric Weger, of Baltimore, Md.
Thomas Lee Wernecke, of Baltimore, Md.
George Elder White, of Still Pond, Md.
Robert Austin Whiteford, of Baltimore, Md.
Bertram Seager Winchester, Jr., of Baltimore, Md.
Russell Clinton Wolfe, of Baltimore, Md.
Charles David Wroten, of Baltimore, Md.

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GRADUATING WITH HONOR

Joseph Thomas Atkins
George Dean Evans
Richard Leslie Golden
Joaquim Lewis Heck
Warren Lee Mann
Robert Arthur Patrick
Alfred Prock
John Edward Rueckert
Richard Hunter Waters
Eric Weger

BACHELORS OF SCIENCE IN AERONAUTICAL ENGINEERING

Francis Joseph Borofka, of Baltimore, Md.
Edward John Otto Himmel, of Baltimore, Md.

(2)

BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING

Bertram Benjamin Grollman, of Brooklyn, N. Y.
John Leroy Hellman, of Baltimore, Md.
Herbert Walfred McNulty, of Jamaica, L. I., N. Y.
John Wolfe Stout, Jr., of Baltimore, Md.

(4)

BACHELORS OF SCIENCE IN CIVIL ENGINEERING

Donald Henry Carstens, of Baltimore, Md.
James F. Michael McKinley, of Baltimore, Md.
Theodore Peter Pajak, of Baltimore, Md.
Leslie John Pierre, of Severna Park, Md.
August Richard Wolz, of Baltimore, Md.

(5)

BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING

Martin Lenzi Bosse, of Baltimore, Md.
Edward John Leimkuhler, of Baltimore, Md.

(2)

BACHELORS OF SCIENCE IN INDUSTRIAL ENGINEERING

Albert Milton Carl Steinbach, of Baltimore, Md.

(1)

BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING

Walter Mendrich, of Baltimore, Md.
Richard Gassaway Smith, of Baltimore, Md.
Charles Herbert Tawney, Jr., of Baltimore, Md.

(3)

GRADUATING WITH HONOR

Richard Gassaway Smith

MASTERS OF SCIENCE IN ENGINEERING

WITH TITLES OF ESSAYS

Courtney Douglas Alvey, of Baltimore, Md., M. E. Stevens Institute of Technology, 1945. Mechanical Engineering.

An Analysis of Some Methods of Steam Turbine Regenerative Cycle Heat Balance Calculations.

Bernhard Henry Baake, III, of Baltimore, Md., B. E. The Johns Hopkins University, 1950. Civil Engineering.

The Effect of Legally Loaded Heavy Trucks on Highway Bridges in Maryland.

Louis Baeriswyl, Jr., of Cincinnati, Ohio, B. S. M. E. Northwestern University, 1946. Electrical Engineering.

An Analysis of an Electro-Hydraulic Closed Loop Servo-mechanism.

Harold Berzof, of Edgewood, Md., B. S. Ch. E. Northeastern University, 1939. Chemical Engineering.

Dielectric Studies in Non-Polar Polymers.

Lawrence Philip Bischoff, of Baltimore, Md., B. S. United States Military Academy, 1943. Electrical Engineering.

History and Developments Leading to the Establishment of Absolute Standards of Measurement.

Wallace Erwin Bjornson, of Devils Lake, N. D., B. E. E. E. North Dakota State University, 1939. Electrical Engineering.

Pulse Time Measurement.

Paul Bock, of Baltimore, Md., B. S. C. E. Massachusetts Institute of Technology, 1947. Civil Engineering.

Investigation by Electrical Analogy of Partially Penetrating Wells in Aquifiers.

Morris Ellis Brodwin, of New York, N. Y., B. S. E. E. University of Nebraska, 1947. Electrical Engineering.

Microwave Impedance Measurements.

Leonard Sidney Buchoff, of Baltimore, Md., B. S. The Johns Hopkins University, 1948. Chemical Engineering.

The Kinetics of the Formation of Parathion.

Francis Natalio Cahn, of Buenos Aires, Argentina, B. S. Harvard University, 1949. Industrial Engineering.

The Management Staff—A Study of Staff Organization for Methods Engineering with Special Reference to Small Industry.

Robert Lewis Carnahan, of Falls Church, Va., A. B. University of California, Los Angeles, 1950. Civil Engineering.

A Study of Available Methods for Investigating the Water Economy of Hydraulic Basins.

Emmett Virgil Conkling, of Kansas City, Mo., B. S. E. E. University of Notre Dame, 1934. Electrical Engineering.

Magnetometers.

Bernard Theodore Craun, of Phoenix, Ariz., B. S. University of Arizona, 1949. Sanitary Engineering.

A Study of Methods for the Determination of Flow in Storm Sewers.

Sigmund Robert Eckhaus, of Baltimore, Md., B. E. The Johns Hopkins University, 1949. Chemical Engineering.

Surface Area of Paint Films.

Sheldon Irvin Euler, of Baltimore, Md., B. E. The Johns Hopkins University, 1950. Industrial Engineering.

A Study of Stockroom Inventory Requirements in Housing Maintenance.

Shui Ching Fung, of Canton, China, B. Sc. National Central University, Chungking, China, 1946. Mechanical Engineering.

Thermal Stresses in a Bar of Rectangular Section.

Bernard Victor Gerber, of Baltimore, Md., B. E. The Johns Hopkins University, 1948. Chemical Engineering.

The Inhibition of Styrene Polymerization by p-Nitroso Phenol.

John Walter Gibson, of Huntingtown, Md., B. E. The Johns Hopkins University, 1948. Electrical Engineering.

Tree Resistance.

William Zender Girton, of Baltimore, Md., B. S. M. E. Tufts College, 1945. Mechanical Engineering.

An Apparatus and Technique for Measuring the Thermal Conductivity of Powdered Material.

Robert Kelly Gould, of Dalhousie, N. B., Canada, B. Sc. University of New Brunswick, 1949. Civil Engineering.

Investigation by Means of the Electrical Analogy of Seepage under Dams on a Permeable Foundation of a Finite Depth.

Joshua Earl Greenspon, of Baltimore, Md., B. E. The Johns Hopkins University, 1949. Mechanical Engineering.

Impact of a Sphere on a Two-Span Beam.

Irving Grossman, of New York, N. Y., B. S. E. Rensselaer Polytechnic Institute, 1949. Sanitary Engineering.

Some Properties of a-Naphthoflavone and Starch as Colorimetric Reagents for Iodine Analysis.

Ray Clyde Haws, of La Faria, Tex., B. S. C. E. University of Texas, 1949. Sanitary Engineering.

Decomposition of Cyanide in Soil.

Norris Jackson Huffington, Jr., of Baltimore, Md., B. E. The Johns Hopkins University, 1949. Mechanical Engineering.

Structures Subjected to Explosive-Type Loading.

Malcolm Corwin Johnson, of Baltimore, Md., B. S. United States Military Academy, 1941. Electrical Engineering.

Atmospheric Radio Noise.

John Edward Keigler, of Baltimore, Md., B. E. The Johns Hopkins University, 1950. Electrical Engineering.

Technical and Economic Aspects of Electric Distribution Systems.

Donald Jay Kohler, of Bakersfield, Calif., B. S. United States Military Academy, 1945. Electrical Engineering.

Missile DOVAP and Radar Plotting.

James Hugh Mayes, of Baltimore, Md., B. S. Ch. E. Texas College of Arts and Industries, 1949. Chemical Engineering.

Heats of Adsorption of Water on Silica Gel.

Philip Stanley McManus, of Holyoke, Mass., B. S. United States Naval Academy, 1942; B. S. E. E. United States Naval Postgraduate School, 1950. Electrical Engineering.

Characteristics of the High Current Direct Current Arc between Electrodes Moving at High Speeds.

George E. Miles, of Edgewood, Md., B. S. New York University, 1937. Chemical Engineering.

Investigation of Surface Chemistry of the Photolithographic Process.

Glenn Raymond Mohr, of Baltimore, Md., B. S. Milwaukee School of Engineering, 1941. Electrical Engineering.

The Effect of Varying the Parameters in the Grid Circuit of an Inductively Coupled Oscillator.

Charles Arthur Morse, Jr., of Winchester, N. H., B. S. S. E. University of Illinois, 1945; B. S. C. E. Worcester Polytechnic Institute, 1948. Sanitary Engineering.

Passenger Accomodation on Emigrant Shipping.

Holmes Orgain, of Baltimore, Md., B. S. M. E. Purdue University, 1936. Sanitary Engineering.

Environmental Studies with Relation to Urban Rat Populations.

Stephen S. Osder, of New York, N. Y., B. E. E. College of the City of New York, 1946. Electrical Engineering.

Electrical Phenomena in Living Systems.

Reid Sterrett Parramore, of Cheriton, Va., B. C. E. University of Virginia, 1950. Sanitary Engineering.

The Tolerance of Fresh Water Fish to Ammonia-Ammonium Wastes and Soft and Hard Waters.

Thiruvenkatachary Parthasarathy, of Madras, S. India, A. B. Loyola College, Madras, 1932; B. E. College of Engineering, Madras, 1937. Sanitary Engineering.

Effect of Organic Matter in the Control of Culex Fatigans by DDT Larvicide.

Avraham Rein, of Tel-Aviv, Israel, M. E. Hebrew Technology Institute, 1947. Industrial Engineering.

A Study of the Maintenance and Operation of Diesel Engines.

Robert Michael Salemi, of Baltimore, Md., B. E. The Johns Hopkins University, 1949. Chemical Engineering.

Adsorption from a Gaseous Stream.

Francis John Slaby, of Coaldale, Pa., B. S. Lehigh University, 1947. Sanitary Engineering.

Study of Deflectors with Undepressed Curb Inlets

George Francis Smith, Jr., of Reno, Nev., B. S. United States Military Academy, 1945. Electrical Engineering.

A Review of Powdered Magnetic Core Materials.

Leroy Harrington Smith, Jr., of Baltimore, Md., B. E. The Johns Hopkins University, 1949. Mechanical Engineering.

The Design of a Subsonic Multistage Axial-Flow Compressor for Maximum Power per Stage.

William Brockenbrough Taylor, of Norfolk, Va., B. S. United States Military Academy, 1945. Electrical Engineering.

Pulsed Operation of Klystrons.

Stephen Charles Traugott, of Baltimore, Md., B. E. The Johns Hopkins University, 1949. Mechanical Engineering.

A Two-Stage Axial Flow Compressor with Non-Uniform Energy Addition per Stage.

Donald Williams Tucker, of Towson, Md., B. E. The Johns Hopkins University, 1950. Civil Engineering.

Condition Survey of the Resurfacing on U. S. 40 Northeast from Baltimore to Aberdeen, Maryland.

William Isadore Wood, of Jacksonville, Fla., B. S. E. E. University of Florida, 1939. Aeronautical Engineering.

Some Aspects of the Calibration of a Supersonic Wind Tunnel.

DOCTORS OF ENGINEERING

WITH TITLES OF DISSERTATIONS

Reuben H. Benner, II, of Haddonfield, N. J., B. S. E. E. Lafayette College, 1943. M. S. E. E. Lehigh University, 1947. Electrical Engineering.

Influence of Water Vapor on High Current Arcs in Air.

Donald Lloyd Birx, of Baltimore, Md., B. E. The Johns Hopkins University, 1944. Electrical Engineering.

Electric Strength of Air at Radio Frequencies.

Richard Edward Farrar, of Lynchburg, Va., B. S. Virginia Polytechnic Institute, 1938; M. E. The Johns Hopkins University, 1949. Chemical Engineering.

Adsorption of Dyes.

Albert Henry Halff, of Richardson, Tex., B. S. C. E. Southern Methodist University, 1937; M. S. C. E. Illinois Institute of Technology, 1942. Sanitary Engineering.

An Investigation of the Rotary Vacuum Filter Cycle as Applied to Sewage Sludges.

Herbert William Hoffmann, of Oak Ridge, Tenn., B. E. The Johns Hopkins University, 1943. Chemical Engineering.

Heat Transfer Coefficients for Air at High Temperatures.

Irvin Raymond Kramer, of Washington, D. C., B. S. The Johns Hopkins University, 1935; M. S., 1947. Mechanical Engineering.

Delay Time for the Initiation of Slip in Metal Single Crystals.

Bernard Harman List, of Baltimore, Md., B. E. The Johns Hopkins University, 1947. Electrical Engineering.

Oscillations in Direct Current Arcs.

Merrill Ivan Skolnik, of Baltimore, Md., B. E. The Johns Hopkins University, 1947; M. S. E., 1949. Electrical Engineering.

Characteristics of the High Current Tungsten Arc in Argon, Helium and their Mixtures.

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BACHELORS OF SCIENCE IN BUSINESS

John Cecil Applegath, of Cambridge, Md.
John Bennett Backes, of Wallingford, Conn.
Archibald Stuart Baldwin, of Glen Arm, Md.
William Claude Bareham, of Cockeysville, Md.
Robert Laurence Bean, of Waterbury, Conn.
Motier Becque, of Baltimore, Md.
Darwin James Blaine, of Brooklyn, N. Y.
Thomas Hunt Brattan, of Baltimore, Md.
Stanley Harvey Broder, of West Orange, N. J.
Roger Stuart Brown, Jr., of Mountain Lakes, N. J.
Richard Warren Burns, of Port Jarvis, N. Y.
James Stewart Clark, of Baltimore, Maryland
James Emory Cooper, Jr., of Baltimore, Md.
Edward Robert Cresap, of Beckley, West Va.
Guy Nelson Cromwell, Jr., of Baltimore, Md.
Ralph Perry Crowder, of Brooklyn, N. Y.
Richard David Crunkleton, of Baltimore, Md.
Robert Towles Cummins, of Baltimore, Md.
Richard Owen Degenhard, of Baltimore, Md.
Thomas Moran Dinsmore, of Lutherville, Md.
Paul Louis Dulow, of Glen Arm, Md.
Arthur Harold Eickhoff, of Baltimore, Md.
Ezra Brockway Ely, of New York, N. Y.
Robert James Erhard, of Baltimore, Md.
Eugene Robert Ferri, of Wood Ridge, N. J.
Robert Page Gary, of Baltimore, Md.
Israel Howard Goldstein, of Baltimore, Md.
Stewart Eccleston Gordon, of Carmel, Ind.
Arthur Crockin Grant, of Baltimore, Md.
Thomas Underwood Greene, Jr., of Baltimore, Md.
Burton Ehrlich Greenwood, of Baltimore, Md.
Charles Carroll Habliston, III of Estes Park, Colo.
Robert Milton Hall Jr., of Baltimore Md.
Ernest Edward Hansen, of Manhasset, L. I., N. Y.
Robert James Hessenauer, of Baltimore, Md.
Herbert Melvin Hutt, of Woodbridge, N. J.
Stewart Martin Hutt, of Woodbridge, N. J.
George Robert Keller, of Baltimore, Md.
Robert William Kemp, of Baltimore, Md.
John Gerard Lemon, of Baltimore, Md.
Richard Albert Marks, of Reading, Pa.
Henry Webb Mealy, of Baltimore, Md.
Robert Lyle Melson, of New Britain, Conn.
John Edward Messer, Jr., of Cincinnati, Ohio
Gerard Barbier Moersdorf, of Hasbrouck Heights, N. J.
Desmond Houston Murphy, of Brooklyn, N. Y.
William Earl Nelson, of New Castle, Pa.
Arthur Joseph Novotny, of Baltimore, Md.
Howard Clarence Porter, of Brookline, Mass.
Edmund Alfred Rendine, of East Providence, R. I.
Dwight Hall Rollins, of Manhasset, N. Y.
Frank Sauter, III, of Brooklyn, N. Y.

John James Sheridan, of Baltimore, Md.
Marshall Bernard Streett, Jr., of Baltimore, Md.
Thomas Stran Summers, Jr., of New Freedom, Pa.
Frederick Charles Sutter, of New York, N. Y.
James Esslor Syphard, Jr., of Baltimore, Md.
James Patten Trotter, Jr., of Yonkers, N. Y.
Donald Jacob White, of Ridgewood, N. J.
Stanley Peter Wilson, of Baltimore, Md.
Charles Douglas Wood, of Annapolis, Md.

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GRADUATING WITH HONOR

Thomas Hunt Brattan
Ralph Perry Crowder
Thomas Moran Dinsmore
Henry Webb Mealy
Charles Douglas Wood

BACHELORS OF SCIENCE

Ellsworth George Acker, of Baltimore, Md.
Anne Catherine Amig, of Baltimore, Md.
Selma Elvira Valborg Andersen, of West Palm Beach, Fla.
Bernard Aloysius Appel, of Baltimore, Md.
Jacob Bassan, of Baltimore, Md.
Forest Tecumseh Benner, of Baltimore Md.
Emma Ruth Wright Boatman, of Randallstown, Md.
Lavonia Linda Bohn, of Baltimore, Md.
Ethel Ford Brannan, of Baltimore, Md.
Walter Taylor Cook, of Baltimore, Md.
Anita Margaret Cooke, of Baltimore, Md.
Samuel Cooper, of Baltimore, Md.
Mary Work Culbertson, of Baltimore, Md.
Margaret Dehner, of Baltimore, Md.
Raymond Robert Denison, of Washington, D. C.
Helen Inez Dewling, of Baltimore, Md.
Paul Eilberg, of Baltimore, Md.
Lois M. Erickson, of Jamestown, N. Y.
Elizabeth Baldwin Fox, of Baltimore, Md.
David Abraham Freedenberg, of Baltimore, Md.
Madeline Rae Fuhrman, of Baltimore, Md.
Jacob Cleveland Fuller, Jr., of Baltimore, Md.
Francis Dawes Garrett, of White Hall, Md.
Edwin Merriam Glocker, of Baltimore, Md.
Nancy Wright Goulet, of Baltimore, Md.
Marvin Leonard Greenbaum, of Baltimore, Md.
Lila Greenstein, of Baltimore, Md.
Marie Elizabeth Griffin, of Baltimore, Md.
Alice Jeanette Hancock, of Baltimore, Md.
Donald Lynn Heffner, of Baltimore, Md.
Marjorie Forkner Hilts, of Baltimore, Md.
Harriet Neff Hodges, of Annapolis, Md.
Jessie Owings Hollenberry, of Baltimore, Md.
Parley Pratt Huff, of White Hall, Md.
Carol Greta Jacob, of New York, N. Y.
Helen Cordier Johns, of Baltimore, Md.
William Henry Kaltenbach, of Baltimore, Md.
Mary Regina Kernan, of Baltimore, Md.
Louella Elizabeth Klug, of Baltimore, Md.
Gertrude Carolyn Eberle Kousz, of Baltimore, Md.
Nancy Lee Lawyer, of Westminster, Md.
Elizabeth Margaret Lewis, of Baltimore, Md.
Edward Theodore Marquardt, of Baltimore, Md.
Nona Irene Merkel, of Baltimore, Md.
Joan Abbott Meyer, of Baltimore, Md.
Louis Woolford Miller, of Baltimore, Md.
Verna Grace Evans Monyak, of Baltimore, Md.
Calvin Pierce Moss, of Punta Gorda, Fla.
Edna Grace Neal, of Baltimore, Md.
Katherine Elizabeth Nichols, of Baltimore, Md.
Herbert Edwin Noreiko, of Baltimore, Md.
Margaret Ellen Norris, of Baltimore, Md.
Rahlban Edward Odette, of Towson, Md.
Walter Lee O'Neill, Jr., of Baltimore, Md.
Edward Brownley Owens, of Annapolis, Md.
John Fred Owings, Jr., of Frederick, Md.
Edith May Panetti, of Baltimore, Md.
William Gibson Paul, of Baltimore, Md.
Thelma Virginia Peregoy, of Baltimore, Md.
Elsie Mason Peyton, of Rapidan, Va.
Emma Myrtle Pike, of Baltimore, Md.
Harriet Shostack Pollack, of Baltimore, Md.
William Jeryl Powell, of Baltimore, Md.
Margaret Lovisiah Richardson, of White Hall Md.
Alice Emma Rider, of Baltimore, Md.
Joan Kaplan Rombro, of Baltimore, Md.
Joseph Burns Rozmarynowski, of Baltimore, Md.
Mary Margaret Schad, of Baltimore, Md.
Regina Clare Schneider, of Baltimore, Md.
David M. Schuman, of Baltimore, Md.
Naomi Rose Seidman, of Baltimore, Md.
Mildred Shanklin, of Baltimore, Md.
Thomas Fisher Shreeve, of Baltimore, Md.
Vera Doris Single, of Baltimore, Md.
Ellihu Esrom Sloan, of Hamptonville, N. C.
Elroy Joseph Snouffer, of Lansdowne, Md.

Almira Louise Sprol, of Baltimore, Md.
Walter William Stauffen, of Baltimore, Md.
Peter Sysak, of Baltimore, Md.
Josephine Theresa Toro, of Baltimore, Md.
Robert Elva Tressel, of Baltimore, Md.
Mary Ethel Troyer, of Parkton, Md.
Elizabeth Frances Webster, of Pylesville, Md.
Bertna Frances Weldon, of Baltimore, Md.
Larayne Ruth Whalen, of Springfield, Mass.
Catherine Bernardine White, of Baltimore, Md.

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GRADUATING WITH HONOR

Jacob Bassan
Helen Cordier Johns
Naomi Rose Seidman
Ethel Ford Brannan
Helen Inez Dewling

BACHELORS OF SCIENCE IN NURSING

Joy Latta Ashley, of Pensacola, Fla.
Elizabeth Marlow Blackburn, of Baltimore, Md.
Elizabeth Ann Boggs, of Zanesville, Ohio
Evelyn Jane Boice, of Adrian, Mich.
Jacqueline Fosdick Bronson, of Fort Pierce, Fla.
Nancy Elizabeth Brooks, of Yadkinville, N. C.
Susan Grey Bumpass, of Virgilina, Va.
Rose Mary Burroughs, of Alexandria, Va.
Lucia Lee Cabot, of Concord, Mass.
Ann Henrietta Christopher, of Jasper, Ala.
Theodora C. Distefano, of Tylertown, Miss.
Helen Priscilla Gray, of Jackson, Miss.
Mary Taylor Guthrie, of Harvey, Illinois
Mary Theodosia Hall, of Lake Forest, Ill.
Bettie Lou Hering, of Sykesville, Md.
Doris Mary Higgins, of Denver, Colo.
Joan Hoffman, of Long Beach, Calif.
Eleanor M. Ibrahim, of Perry Point, Md.
Kathleen Foote Kennedy, of Lockport, N. Y.
Dorothy J. McKewen, of Fredonia, Pa.
Esther Rose Moore, of Bassett, Va.
Catherine Lorraine Morton, of Takoma Park, Md.
Lois Georgia Pagoria, of Harvey, Ill.
Patricia Anne Pruner, of Washington, D. C.
Elizbeth Lawrence Sherman, of Chicago, Ill.
Elizabeth Davies Eyre Sisson, of Reidsville, N. C.
Adele Mandelia Sparks, of Upperco, Md.
Katrina Ann Swecker, of Keyser, West Va.
Geraldine Ann Waybright, of Gettysburg, Pa.
Catherine Frances White, of Colonial Beach, Va.
Elizabeth Ann Wiseman, of McArthur, Ohio

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GRADUATING WITH HONOR

Mary Theodosia Hall

MASTERS OF EDUCATION

Clara Banos, of Baltimore, Md., A. B. Hunter College, 1942.

Samuel Edgar Clopper, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1946.

Sonia Doris Cohen, of Baltimore, Md., A. B. Goucher College, 1948.

Harry Gordon Coiner, of Baltimore, Md.

Eric Gall Connolly, of North Swansea, Mass., B. S. in Educ. Boston University, 1948.

Ralph Cecil Daniels, of Baltimore, Md., B. S. in Educ. State Teachers College, Towson, Md., 1948.

Archibald Golder, of Baltimore, Md., A. B. The Johns Hopkins University, 1918.

Thomas Nelson Haase, of Baltimore, Md., A. B. University of Maryland, 1941.

Rosalie Bollinger Hardesty, of Baltimore, Md., B. S. The Johns Hopkins University, 1947.

Rhea Christine Hogan, of Baltimore, Md., A. B. Western Maryland College, 1931.

Benjamin S. Joffe, of Pikesville, Md., B. S. The Johns Hopkins University, 1937.

Ouida Street Kallmyer, of Cumberland, Md., B. S. State Teachers College, Frostburg, Md., 1937.

Ruth M. Magill, of Baltimore, Md., B. S. The Johns Hopkins University, 1928.

John Howard McCauley, Jr., of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1947.

Helen Mixter, of Baltimore, Md., B. S. The Johns Hopkins University, 1939.

Wilhelmina Elizabeth Oldfield, of Ellicott City, Md., B. S. The Johns Hopkins University, 1947.

Elra Mouton Palmer, of Baltimore, Md., B. S. The Johns Hopkins University, 1936.

Spencer Frederick Runkle, of York, Pa., A. B. Ursinus College, 1940.

Alexina Gertrude Stidham, of Baltimore, Md., B. S. The Johns Hopkins University, 1938.

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DOCTORS OF EDUCATION

WITH TITLES OF DISSERTATIONS

Robert Louis Lamborn, of McDonogh, Md., A. B. Stanford University, 1938; M. Ed. Harvard University, 1941.

Guidance in Independent Secondary Schools for Boys: The Practices and Policies Reported by 227 Schools in the New England and Middle Atlantic States.

Ruth Barbara Miller, of Baltimore, Md., B. S. The Johns Hopkins University, 1931; M. Ed., 1936.

St. Nicholas and the American Child.

Francis Joseph Mueller, of Baltimore, Md., B. S. Loyola College, 1943; M. A. The Johns Hopkins University, 1947.

Evaluations of College Faculties by Students.

(3)

MASTERS OF SCIENCE IN HYGIENE

WITH TITLES OF THESES

Walter Marvin Bowman, of Charleston, W. Va., A. B. Ohio State University, 1937. Bacteriology.

Kinetic Studies on Immune Hemolysis II. Reversibility of Red Cell-Antibody Combination and the Resultant Transfer of Antibody from Cell to Cell during Hemolysis.

Joyce Virginia King, of Vancouver, British Columbia, Canada, B. S. A. University of British Columbia, 1948. Bacteriology.

Studies on the Nutrition of *Clostridium botulinum.*

Americo Alvin Marucci, of Orange, N. J., B. S. Rutgers University, 1944. Bacteriology.

Quantitative Studies of the Precipitin Reaction between Urease and Rabbit Anti-Urease as Related to the Inhibition of Enzymic Activity.

Mary Ellen Patno, of Pittsburgh, Pa., B. S. University of Colorado, 1938. Biostatistics.

The Utilization of a Mail Questionnaire in Obtaining Immunization Histories of First Grade Children.

Michel Saleh, of Cairo, Egypt, M. B., B. Ch. Fouad 1st University, 1947. Bacteriology.

Studies on the Relationship between Antibodies and Immunity in Influenza Virus Infections.

Everett Holland Williams, Jr., of Jacksonville, Fla., B. A. University of Florida, 1940. Biostatistics.

A Study of Illness among Families Residing in Public Housing and Applicants for Public Housing in Baltimore.

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DOCTORS OF SCIENCE IN HYGIENE

WITH TITLES OF DISSERTATIONS

Helen Abbey, of Jackson, Mich., B. S. Battle Creek College, 1938; M. A. University of Michigan, 1940. Biostatistics.

An Examination of the Reed-Frost Theory of Epidemics.

Eli Chernin, of New York, N. Y., B. S. College of the City of New York, 1944; M. A. University of Michigan, 1948. Parasitology.

The Biology of *Leucocytozoon simondi* with Particu-

lar Reference to the Epizootiology and the Phenomenon of Relapse in the Domestic Duck.

Milford Harrison Hatch, of Falmouth, Mass., A. B. Brown University, 1944. Bacteriology.

A Study of the Growth Requirements of Pleuroneumonia Organisms including the Development of a Plating Method for Quantitating Their Growth.

Leo Kartman, of Los Angeles, Calif., B. S. University of Wisconsin, 1936; M. S. 1936. Parasitology.

Factors Influencing the Susceptibility of the Mosquito to *Dirofilaria immitis* (Leidy, 1856).

Arthur Simpson Littell, of New Canaan, Conn., A. B. Harvard University, 1944; A. M. The Johns Hopkins University, 1948. Biostatistics.

Estimation of the T-Year Survival Rate from Follow-up Studies over a Limited Period of Time.

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MASTERS OF PUBLIC HEALTH

Einar Aartun, of Lauvnes, Norway, M. D. University of Oslo, 1948.

Mary Josephine Alberti, of Washington, D. C., R. N. St. Luke's Hospital, New York City, 1932; B. Sc. Ohio State University, 1936.

Wilbur Charles Anderson, of Allison Park, Pa., Ph. G. University of Pittsburgh, 1931; B. Sc. 1937; M. Sc. 1939.

Anant Krishna Anwikar, of Mandla, Madhya Pradesh, India, L. M. P. (C. P.), Robertson Medical School, 1937.

Jane Carol Baldwin, of Baltimore, Md., A. B. Skidmore College, 1937.

William Gladstone Beadenkopf, of Baltimore, Md., A. B. The Johns Hopkins University, 1937; M. D. 1941.

Theodore Cleveland Bedwell, Jr., U. S. Air Force, B. S. Southern Methodist University, 1931; M. D. Baylor University, 1933.

Ruth Koester Beecroft, of Washington, D. C., B. A. University of Minnesota, 1925; M. A. 1927; M. D. University of Southern California, 1938.

Hugo Behm, of Santiago, Chile, M. D. University of Chile, 1936.

Barry Bowers, of Penns Grove, N. J., B. E. Vanderbilt University, 1947.

Dale Corbin Cameron, U. S. Public Health Service, A. B. University of Nebraska, 1933; M. D. 1936.

Margaret Christine Emelie Cammaert, of Trail, British Columbia, Canada, R. N. University Hospital, Edmonton, Canada, 1943; B. Sc. University of Alberta, 1944.

Fernando Miguel Campos, of Lima, Peru, M. D. Universidad Mayor de San Marcos, 1945.

Pablo Arturo Capecchi, of Caracas, Venezuela, Dr. Medicine, Universidad Central Caracas, 1942.

Janette Claire Carlsen, of Manhattan, Kansas, B. S. Kansas State College, 1943.

Howard Winston Chapman, U. S. Public Health Service, B. S. C. E. West Virginia University, 1936.

William Hampton Childress, Jr., of Signal Mountain, Tenn., A. B. Syracuse University, 1946.

Ardell Benton Colyar, U. S. Public Health Service, M. D. University of Oklahoma, 1941.

Andres Cruz y Yambao, of Manila, Republic of the Philippines, A. A. University of the Philippines, 1939; M. D. University of Santo Tomas, 1944.

John Charles Cutler, U. S. Public Health Service, B. A. Western Reserve University, 1937; M. D. 1941.

Sambhu Nath Datta, of Calcutta, India, M. B. Calcutta University, 1943; B. A. 1947; D. T. M. 1948; D. P. H. 1949.

Joseba Kelmendi de Ustaran, of Rosario de Santa Fe, Argentina, M. D. Universidad del Litoral, 1945; M. P. H. 1949.

William Thomas Doran, Jr., of Silver Spring, Md., A. B. Dartmouth College, 1930; M. D. Cornell University, 1934.

Alberto Epifanio Timoteo Dumont, of Santa Fe, Argentina, M. D. Universidad del Litoral, 1939; M. P. H. 1949.

Robert Lee Dunham, of Cincinnati, Ohio, C. E. University of Cincinnati, 1925.

Lewishenedige Justin Edward Fernando, of Colombo, Ceylon, L. M. S. Ceylon Medical College, 1940.

Earl Wayne Grogan, U. S. Army, D. V. M. Agricultural and Mechanical College of Texas, 1946.

Richard Glenn Hahn, of New York, N. Y., B. S. Lafayette College, 1924; M. D. Harvard University, 1928.

Jack Howard Hempy, U. S. Air Force, D. V. M. Ohio State University, 1941.

Mir Aga Hessami, of Kabul, Afghanistan, Doctor of Medicine, Kabul Medical Faculty, 1944.

Jose Horwitz, of Santiago, Chile, M. D. University of Chile, 1932; Certificate of Public Health 1949.

Miriam Gertrude Joffe, of Jerusalem, Israel, M. B. Ch. B. University of Capetown, 1941.

Clifford Stanley Johnson, of Washington, D. C., B. S. Duquesne University, 1936.

Gordon Henley Josie, of Ottawa, Canada, B. Sc. University of Manitoba, 1932; M. Sc. 1935.

Peter Wilhelm Nepomuk Kessler, of Munich, Germany, M. D. University of Innsbruck, 1945.

Stuart Fordyce Kitchen, of New York, N. Y., M. D. University of Western Ontario, 1926.

Hilda Knobloch, of Baltimore, Md., B. A. Barnard College, 1936; M. D. New York University, 1940.

Henry Wallace Lane, of El Dorado, Kansas, A. B. University of Kansas, 1933; M. A. 1936; M. D. 1939.

Stanley Johnson Leland, of Baltimore, Md., M. D. Vanderbilt University, 1928.

Heinrich Josef Leuchter, of Weisbaden, Germany, M. D. University of Berlin, 1944.

Kuang Chi Liang, of Kao-hsiung, Formosa, China, M. D. Taihoku Imperial University, 1945.

Mysore Leakshmana Mudaliar Loganathan, of Bangalore, Mysore, India, M. B. B. S. Mysore University, 1939; D. P. H. Calcutta University, 1945.

Rafael Lorca, of Santiago, Chile, M. D. University of Chile, 1928; Certificate in Public Health 1946.

Rodrigo Loría Cortes, of San Jose, Costa Rica, M. D. National University of Mexico, 1949.

Ali Syed Mahfuz, of Karachi, Pakistan, M. B., B. S. Punjab University, 1946.

Jacques Noel Manceau, of Rio de Janeiro, Brazil, M. D. Faculdade Nacional de Medicina, 1944.

Joseph Hamilton McNinch, U. S. Army, A. B. Ohio State University 1927, M. D. 1930.

Alan David Miller, U. S. Public Health Service, B. A. Amherst College, 1942; M. D. New York University, 1945.

Shamseddine Mohamad Hossein Mofidi, of Iran, M. D. University of Teheran, 1945.

Amaury Pinto de Castro Monteiro, of Araraquara, Brazil, M. D. School of Medicine of Niteroi, 1941.

Minoru Muramatsu, of Tokyo, Japan, M. D. Tokyo University, 1946.

Henry Gilbert Page, of Ottawa, Canada, B. A. University of Ottawa, 1936; M. A. 1940.

Eunice Delicia Constance Pereira, of Colombo, Ceylon, L. M. S. Ceylon Medical College, 1936.

Rose Prystowsky, of Charleston, S. C., B. S. University of South Carolina, 1941; M. D. The Medical College of the State of South Carolina, 1944.

Earl Wayne Reber, of New York, N. Y., B. S. Lebanon Valley College, 1942; M. D. Temple University, 1945.

Donald Herbert Robinson, U. S. Army, B. S. Grove City College, 1940; M. D. Hahnemann Medical College, 1945.

John Donaldson Ross, of Edinburgh, Scotland, M. B. Ch. B. Edinburgh University, 1941; F. R. C. P. E. Royal College of Physicians of Edinburgh, 1948.

Joseph Felix Rudmin, of Port Leyden, N. Y., A. B. Cornell University, 1934; M. D. Columbia University, 1938.

Joaquín Gabriel Santos (h.), of San Salvador, El Salvador, M. D. Universidad de El Salvador, 1949.

Pablo Aquino Santos, of Manila, Republic of the Philippines, A. A. National University, 1933; M. D. University of Santo Tomas, 1938.

James Ewing Scatterday, of Jacksonville, Fla., D. V. M. Ohio State University, 1933.

Ruth Ernestine Simonson, of Syracuse, N. Y., R. N. University of Nebraska, 1930; B. Sc. University of Minnesota, 1942; M. A. Columbia University, 1945.

Louise Victoria Smith-Ramos, of Juncos, Puerto Rico, B. S. in Ph. University of Puerto Rico, 1941; M. D. Université Laval, 1946.

James Campbell Strong, of Paris, Tex., M. D. Baylor University, 1939.

Mary Herschel Swanberg, of Chicago, Ill., B. S. University of Chicago, 1942; M. D. 1946.

Kalaya Visesbadhya, of Bangkok, Siam, M. B. Siriraj School of Medicine, 1943.

William Arnold Walter, Jr., U. S. Public Health Service, A. B. Indiana University, 1943; M. D. 1945.

Knut Birger Westlund, Oslo, Norway, M. D. University of Oslo, 1949.

Jack Jerome Williams, of Stockton, Calif., A. B. University of California, 1943; M. D. 1947.

William Ferrell Wilson, of Florence, Ala., B. A. Denison University, 1938; B. C. E. Ohio State University, 1940.

William Lovell Wright, of Sarasota, Fla., A. B. University of Louisville, 1933; M. D. 1936.

DOCTORS OF PUBLIC HEALTH

WITH TITLES OF THESES

John Chandler Hume, of Baltimore, Md., A. B. Princeton University, 1932; M. D. Vanderbilt University, 1936; M. P. H. The Johns Hopkins University, 1947. Public Health Administration.

An Evaluation of Prenatal Examination Legislation, Based on the West Virginia Experience.

James Richard Kingston, U. S. Navy, M. D. University of Minnesota, 1930; M. P. H. Harvard University, 1939. Bacteriology.

Membrane Permeability and Growth of Virus in the Chick Embryo.

Leonard Terry Kurland, U. S. Public Health Service, A. B. The Johns Hopkins University, 1942; M. D. University of Maryland, 1945; M. P. H. Harvard University, 1948. Epidemiology.

The Frequency and Geographic Distribution of Multiple Sclerosis as Indicated by Mortality Statistics and Morbidity Surveys in the United States and Canada.

Robert Andrus Mount, U. S. Navy, M. D. Baylor University, 1938; M. P. H., The Johns Hopkins University, 1949. Bacteriology.

A Study of the Mechanism of Cellular Invasion by Influenza Virus.

Athol James Patterson, of Wanganui, New Zealand, M. B. Ch. B. University of Otago, 1945; D. T. M. & H. London University, 1947; D. P. H. 1948; D. I. H. 1948. Public Health Administration.

International Health Organization.

Francis John Weber, U. S. Public Health Service, A. B. University of Pennsylvania, 1932; M. D. 1936; M. P. H. The Johns Hopkins University, 1939. Public Health Administration.

Mental Hygiene in the Prevention of Irregular Discharge of Patients Hospitalized with Tuberculosis.

Betsy Geraldine Wootten, of Berkeley, Calif., A. B. University of California, Los Angeles, 1935; M. D. Washington University, 1940; M. P. H. The Johns Hopkins University, 1949. Public Health Administration.

The Emotional Status of 56 Prenatal Clinic Patients: Correlation with Obstetrical Experiences.

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DOCTORS OF MEDICINE

Izabella Nina Aldon, of New York, N. Y., University of Edinburgh.

Edward Clinton Andrews, Jr., of Plainfield, Vt., A. B. Middlebury College, 1945.

Helen Thomas Baker, of College Park, Md., S. B. University of Maryland, 1947.

Jerome Bellet, of Passaic, N. J., A. B. Vanderbilt University, 1947.

David Cloyd Bennighof, of Westminster, Md., A. B. Western Maryland College, 1947.

Charles Paulett Bugg, of Raleigh, N. C., A. B. Duke University, 1947.

Burr Noland Carter, II, of Richmond, Va., A. B. University of Virginia, 1947.

Solomon Jay Cohen, of New York, N. Y., A. B. Cornell University, 1944.

Kenneth McCutchen Cole, Jr., of Dallas, Tex., S. B. in Chem. Eng., Georgia School of Technology, 1944.

John Edmund Coles, of Rexburg, Idaho., A. B. University of California, 1947.

Harold Arthur Collins, of Sandersville, Miss., A. B. West Virginia University, 1947.

Lucien James Coquet, of Dallas, Tex., S. B. Agricultural and Mechanical College of Texas, 1939.

Arthur Bell Craig, Jr., of Wollaston, Mass., A. B. Harvard University, 1947.

Darral Dean Cunningham, of Edwards, Mo., A. B., William Jewell College, 1942.

Robert Durley Dean, of Byhalia, Miss., S. B. University of Mississippi, 1946.

Arthur Laurence Dee, of San Francisco, Calif., A. B. Stanford University, 1943.

Harry Ernest Dehaven, Jr., of Bridgeport, W. Va., A. B. West Virginia University, 1947.

Charles W. Denko, of Ellwood City, Pa., S. B. Geneva College, 1938; M. S. Pennsylvania State College, 1939; Ph. D. 1943.

Jacquelyn Joanne Decker Denko of Ellwood City, Pa., A. B. Hope College, 1947.

Alfred Louis DeSanctis, of New York, N. Y., A. B. Hamilton College, 1939.

Francis Markoe Dugan, of Baltimore, Md., A. B. Georgetown University, 1939.

James Ralph Dunn, Jr., of Sumter, S. C., S. B. Davidson College, 1943; M. A. Emory University, 1947.

Helen Brown Flynn, of Caledonia, Minn., A. B. Huntingdon College, 1947.

Pierce Julius Flynn, of Caledonia, Minn., S. B. Marquette University, 1947.

Paul Charles Gregg, of Bloomfield, N. J., S. B. Union College, 1947.

Dorothea Joan Groschupf, of Spokane, Wash., A. B. Mills College, 1946.

Jacob Alexander Haller, Jr., of Pulaski, Va., A. B. Vanderbilt University, 1947.

Bradford Hardie, III, of El Paso, Tex., S. B. Agricultural and Mechanical College of Texas, 1942.

Mary Clare Harmon, of South Euclid, Ohio, A. B. Western Reserve University, 1946.

John Louis Hedeman, of Baltimore, Md. A. B. St. John's College, 1943.

Thomas Russell Hendrix, of Tarzana, Calif., A. B. University of California at Los Angeles, 1947.

Walter Samuel Henly, of Albuquerque, N. M., S. B. University of New Mexico, 1947.

Jesse Donald Hubbard, of Sardinia, Ind., A. B. DePauw University, 1943.

Robert Bruce Hunter, of Washington, D. C., S. B. Bowdoin College, 1947.

Andrew Floyd Jannett, of Hammonton, N. J., A. B. LaSalle College, 1943.

Harold Lee Johnson, of Frankfort, Ky., A. B. Centre College, 1947.

Frederic Kavaler, of New York, N. Y., A. B. Columbia University, 1947.

Howard Milton Kern, Jr., of Pikesville, Md., A. B. University of Pennsylvania, 1946.

Victor Mainard Kimel, of Allston, Mass., A. B. Harvard University, 1947.

Edward Merriman Lance, of Rahway, N. J., A. B. Princeton University, 1947.

Wilson Hwei-yuen Lo, of Shanghai, China, S. B. University of Nanking, 1945.

John Hayes Lodge, of Bridgeport, W. Va., A. B. West Virginia University, 1947.

Martha Ray Lumpkin, of Louisburg, N. C., A. B. Woman's College of the University of North Carolina, 1947.

John Gorman Lyons, Jr., of Portland, Me., A. B. Bowdoin College, 1947.

Thomas Hartley Maren, of Mount Vernon, N. Y., A. B. Princeton University, 1938.

Jane Bell McKewen, of Towson, Md., S. B. The Johns Hopkins University, 1945.

Gary Owen Morris, of Del Rio, Tex., A. B. Baylor University, 1946.

George Lawrence Norton, of Salt Lake City, Utah, S. B. Utah State Agricultural College, 1947.

John Sherman O'Connor, of Norwalk, Conn., A. B. Dartmouth College, 1948.

Paul Raymond Overhulse, of Hamler, Ohio, A. B. Harvard University, 1947.

Richard Nevin Peeler, of Lexington, N. C., A. B. Catawba College, 1947.

Leon Clair Perry, of Madison, W. Va., A. B. West Virginia University, 1947.

Herman Pinkerton, Jr., of Cookeville, Tenn., S. B. Tennessee Polytechnic Institute, 1947.

Giacomo Pirzio-Biroli, of Udine, Italy, University of Rome.

Leon Williams Powell, Jr., of Durham, N. C., A. B. Duke University, 1947.

George Joseph Richards, Jr., of San Francisco, Calif., S. B. University of California, 1942.

John Thomas Riggin, Jr., of Baltimore, Md., A. B. The Johns Hopkins University, 1947.

Mayer David Roseman, of Philadelphia, Pa., A. B. The Johns Hopkins University, 1947.

Victoria Salas-Umana de Aguilar, of San José, Costa Rica, A. B. Barnard College, 1946.

George Ferdinand Schnack, of Honolulu, Hawaii, A. B. Stanford University, 1939; M. A. 1940.

A. M. Shelton, Jr., of Austin, Tex., A. B. University of Texas, 1947..

Mary Adelaide Siddall, of Highland Park, Mich., A. B. Goucher College, 1946.

Harold Myron Silberman, of Miami Beach, Fla., A. B. The Johns Hopkins University, 1947.

William Lewis Stewart, of Baltimore, Md., A. B. The Johns Hopkins University, 1947.

Adolph Walter Suksta, of Baltimore, Md., A. B. The Johns Hopkins University, 1947.

Charles Louis Tanner, of Meridian, Miss., A. B. University of Mississippi, 1941.

Paul Mitchell Taylor, Jr., of Baltimore, Md., A. B. The Johns Hopkins University, 1947.

Gabriel Frederick Tucker, Jr., of Cynwyd, Pa., A. B. Princeton University, 1947.

John Calvin Turner, Jr., of Miami, Fla., S. B. Davidson College, 1943.

Eberhard Henry Uhlenhuth, of Baltimore, Md., S. B. Yale University, 1947.

Esther Louise Ullman, of Hickory, N. C., A. B. Lenoir Rhyne College, 1948.

George Edward Wells, III, of Baltimore, Md., A. B. The Johns Hopkins University, 1947.

Frederick William Wiese, of South Mountain, Pa., A. B. The Johns Hopkins University, 1940.

Harry Chieu Wong, of Seattle, Wash., S. B. University of Washington, 1947.

Julio Cesar Wong, of Colon, R. of Panama, A. B. University of California, 1947.

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MASTERS OF ARTS

IN THE SCHOOL OF ADVANCED INTERNATIONAL STUDIES

Robert Nelson Alfandre, of Washington, D. C., B. A. Swarthmore College, 1949.

Abdul Jalil Al-Rawi, of Bagdad, Iraq, License, College of Law, Baghdad, Iraq, 1934.

Dana Kimball Ball, of Clinton, N. Y., A. B. Hamilton College, 1950.

Joseph Edward Banta, of New York, N. Y., B. A. Amherst College, 1950.

Virginia Louise Beach, of Portland, Ore., B. A. Wellesley College, 1947.

Edwin W. Bishop, of Paterson, N. J., A. B. Antioch College, 1950.

Robert Clark Bodden, of Jacksonville, Fla., A. B. George Washington University, 1950.

John Robert Curtis, Jr., of Dallas, Tex., B. A. George Washington University, 1950.

Joseph Anthony Di Stefano, of New Brunswick, N. J., B. A. Rutgers University, 1950.

David Duberman, of Mobile, Ala., B. A. University of Alabama, 1950.

Erland Frisvold, of Oslo, Norway, University of Oslo.

William Tudor Griswold, II, of Pasadena, Calif., B. S. University of California, 1948.

David Updegraff Groves, of Washington, D. C., B. A. University of Maryland, 1950.

Abdon Francis Guidette, of Springfield, Mass., B. S. American University, 1949.

Wilma Jean Hardy, of Columbus, Ohio, B. A. Miami University, 1950.

Edwin Bonner House, of Houston, Tex., B. A. The Rice Institute, 1937.

Kiyoaki Kikuchi, of Sendai, Japan, Hogakushi, Tokyo University, 1944.

Harvey Gunn Marcy, of Schenectady, N. Y., B. A. Pennsylvania State College, 1949.

Milton J. Mikolasek, of Prague, Czechoslovakia, B. A. University of Georgia, 1948.

John Royal Mills, of Wilmette, Ill., B. S. Northwestern University, 1950.

Blair Alexander Moffett, of Springfield, Pa., B. A. Swarthmore College, 1949.

Lee Evans Patton, of Chicago, Ill., A. B. Grinnell College, 1950.

Miles McMillen Prescott, of Ft. Lauderdale, Fla., B. A. Ohio Wesleyan University, 1949.

Frederic Rockwell Gladstone Sanborn, of Brooklyn, N. Y., B. A. Yale College, 1949.

William Lehman Smith, of Boothwyn, Pa., B. A. Dickinson College, 1950.

Donald Lewis Snook, of Derby, Iowa, A. B. Grinnell College, 1949.

Wallace Holmes Spaulding, Jr., of Seattle, Wash., B. A. University of California, 1950.

John R. Vought, of Peekskill, N. Y., B. A. St. Lawrence University, 1950.

William Clement Wiseley, of Findlay, Ohio, B. A. Amherst College, 1950.

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MASTERS OF ARTS

WITH TITLES OF ESSAYS

Jerome Hillel Abrams, of Baltimore, Md., B. S. The Johns Hopkins University, 1948. Art.

Duane Lowell Barney, of Topeka, Kan., B. S. Kansas State College, 1950. Chemistry.

Jean Ackerman Berning, of Baltimore, Md., A. B. University of Buffalo, 1948. Mathematics.

Peter Henry Berning, of Baltimore, Md., A. B. The Johns Hopkins University, 1948. Mathematics.

Albert Lambert Bethel, of Glen Burnie, Md., B. S. United States Military Academy, 1944. Physics.

Christian Edward Bjerknes, of Baltimore, Md., A. B. University of Maryland, 1948. Writing, Speech and Drama.

Cassandra and Other Poems.

Bernard Daniel Blaustein, of Washington, D. C., B. S. Ch. E. University of Pennsylvania, 1950. Chemistry.

Marvin Roddy Blumberg, of Baltimore, Md., A. B. The Johns Hopkins University, 1949. Political Economy.

Agricultural Purchasing versus Subsidization Programs.

Richard Ronald Bornemann, of Parkton, Md., A. B. Western Maryland College, 1949. Art.

William Edward Buchanan, of Towson, Md., B. S. The Johns Hopkins University, 1950. Writing, Speech and Drama.

There Glows a Sphere: A Novel.

Eleanor Webster Bulatkin, of Baltimore, Md., Romance Languages.

George Carroll Buzby, Jr., of Philadelphia, Pa., A. B. Princeton University, 1950. Chemistry.

Thomas Francis Cady, C. S. C., of Notre Dame, Ind., A. B. Notre Dame University, 1941. Classics.

Leslie Wilford Camp, of Provo, Utah, B. S. Brigham Young University, 1950. Geology.

Thomas Arthur Carlson, of West Hartford, Conn., B. S. Trinity College, 1950. Chemistry.

John Anthony Carpenter, of Rockville Centre, N. Y., A. B. The Johns Hopkins University, 1950. Psychology.

James W. Carper, of Oyster Point, Va., A. B. Indiana University, 1949. Psychology.

William John Carr, of Baltimore, Md., A. B. Franklin and Marshall College, 1949. Psychology.

Clifton Cyril Cherpack, of New Britain, Conn., A. B. Trinity College, 1949. Romance Languages.

Harold Trevor Colbourn, of Poole, England, A. B. University College of the South West, Exeter, England, 1948; M. A. The College of William and Mary, 1949. History.

Carroll Peterson Cole, of Elsah, Ill., A. B. The Principia, 1947. Writing, Speech and Drama.

Let These Delight, and Elizabethan Comedy Revisited.

Thomas Josephus Copeland, III, of New York, N. Y., A. B. The Johns Hopkins University, 1947. History.

The Parliamentary Career of Joseph Hume 1817-1832.

Leslie Curry, of Newcastle on Tyne, England, A. B. King's College, University of Durham, 1949. Geography.

The Use of the Regional Concept in Economic Studies.

George Hutcheson Denny, Jr., of Westfield, N. J., B. S. in Chem. Washington and Lee University, 1950. Chemistry.

Susan Dischka, of Budapest, Hungary, A. B. University of Georgia, 1948. Political Science.

William Daniel Donahoo, of Baltimore, Md., A. B. Western Maryland College, 1949. Art.

Allison Jarrard Downs, of New York, N. Y., A. B. Oberlin College, 1949. English.

Carl Plakcy Epstein, of Waterbury, Conn., A. B. Tulane University, 1947. German.

Death in the Poems of Conrad Ferdinand Meyer.

Ruth Breslau Fein, of Baltimore, Md., A. B. Goucher College, 1949. History.

Leopold Flatto, of New York, N. Y., B. S. College of the City of New York, 1950. Mathematics.

William Joseph Fletcher, of Baltimore, Md., A. B. St. Mary's Seminary, 1940; S. T. B., 1942. History.

The Contribution of the Faculty of Saint Mary's Seminary to the Solution of Baltimore's San Domingan Negro Problem 1793-1852.

Lotte Wilhelmine Forest, of Philadelphia, Pa., A. B. Brooklyn College, 1949. German.

Das Leitmotiv in Otto Ludwigs Erzählungen
Die Heiteretei und Zwischen Himmel und Erde.

Francis Xavier Gallagher, of Baltimore, Md., A. B. Loyola College, 1949. Writing, Speech and Drama.

A Handbook of Strategy for Modern College Debating.

Claude Gerard, of Towson, Md., A. B. The Johns Hopkins University, 1949. Writing, Speech and Drama.

World Without End: A Novel.

Coy Montgomery Glass, of Baltimore, Md., A. B. The Johns Hopkins University, 1949. Chemistry.

James Edward Griffiss, of Baltimore, Md., A. B. The Johns Hopkins University, 1950. Writing, Speech and Drama.

Proust and Bergson: An Approach to the Problem of Poetry and Philosophy.

Philip Mahone Griffith, of Monroe, N. C., A. B. University of North Carolina, 1944; M. A. 1945. English.

Floyd Cresswell Haley, of Princeton, W. Va., B S. Concord College, 1946. Chemistry.

Rita May Halsey, of Southampton, N. Y., A. B. William Smith College, 1947. Psychology.

Robert Elvin Hazel, of Silver Spring, Md., A. B. George Washington University, 1946. Writing, Speech and Drama.

The Setting out of the Horsemen: A Collection of Poems.

Paul Christopher Hinrichs, of Baltimore, Md., A. B. The Johns Hopkins University, 1950. Writing, Speech and Drama.

The Stage is Set, Enter the Poet: An Inquiry into the State of Modern Poetic Drama.

Elizabeth Schloss Hirsh, of Baltimore, Md., A. B. Goucher College, 1934. Art.

Ronald Floyd Howell, of Birmingham, Ala., A. B. University of the South, 1949. Political Science.

The Conservatives' Influence on the Constitutional Development of Civil Liberties, 1922-1937.

Roger Hyndman, of Los Angeles, Calif., A. B. University of California, Los Angeles, 1950. English.

John Eric Iwersen, of Staten Island, N. Y., B. S. Wagner College, 1949. Chemistry.

Ray Stanley Kelley, Jr., of Newton Highlands, Mass., B. A. Williams College, 1948. Political Economy.

The Impact of F. O. B. Mill Pricing on Maryland Manufactures.

Harry George Kothe, of Baltimore, Md., A. B. The Johns Hopkins University, 1949. Romance Languages.

Eolin Catherine Kuper, of Ruxton, Md., B. S. The Johns Hopkins University, 1949. Writing, Speech and Drama.

Speech Training for Pitch Deficient Children Having Articulatory Defects, by Instruction in Musical Ear Training in Pitch and Rhythm Perception.

Thomas Eugene Larson, of Baltimore, Md., A. B. Lewis and Clark University, 1950. Chemistry.

Joel Levy, of Perth Amboy, N. J., A. B. Yeshiva College, 1945. Political Economy.

Business Income Taxes and Investment Structure.

* Died October 18, 1950.

Richard Avery MacCracken, of Baltimore, Md., A. B. The College of William and Mary, 1946. Classics.

Dennis Manitsas, of Brockport, N. Y., B. E. Brockport State Teachers College, 1943. English.

James Walter McGary, of Severna Park, Md., B. S. State Teachers College, Slippery Rock, Pa., 1939; B. S. United States Coast Guard Academy, 1942. Physical Oceanography.

John Francis Mehegan, of Baltimore, Md., A. B. The Johns Hopkins University, 1949. Mathematics.

George Stanley Melville, Jr., of Yonkers, N. Y., A. B. The Johns Hopkins University, 1949. Chemistry.

Eva Mary Merrett, of New York, N. Y., A. B. Hunter College, 1949. German.

The Child in Theodor Storm's Early Novellen.

Kenneth Jay Miller, of Beacon, N. Y., B. S. Eastern Nazarene College, 1949. Chemistry.

Redmond Kathleen Molz, of Baltimore, Md., B. S. The Johns Hopkins University, 1949. English.

Carl Thomas Moore, of Baltimore, Md., A. B. The Johns Hopkins University, 1949. Geology.

Alfred Glenn Mower, Jr., of Danville, Pa., A. B. Dickinson College, 1940; B. D. Gettysburg Lutheran Seminary, 1943. Political Science.

Michael Hunt Murray, of Towson, Md., A. B. Harvard University, 1948. Art.

Richard Peter Nickelsen, of Lynbrook, N. Y., A. B. Dartmouth College, 1949. Geology.

Elizabeth Ann Nielsen, of Rio de Janeiro, Brazil, A. B. New York University, 1943. Writing, Speech and Drama.

The Octopus: A Novel.

William Nusbaum, of Harrisonburg, Va., B. S. Virginia Polytechnic Institute, 1939. Geology.

Sonia Fellner Osler, of Baltimore, Md., A. B. Hunter College, 1933. Psychology.

*Eli Ossofsky, of Aberdeen, Md., B. E. E. College of the City of New York, 1944. Physics.

Constant Temperature Operation of the Hot-wire Anemometer at High Frequencies.

Robert Oscar Payne, of Eugene, Ore., A. B. University of Oregon, 1948. English.

John Angelo Pentz, of Baltimore, Md., A. B. The Johns Hopkins University, 1925. Writing, Speech and Drama.

The Moral Element in Ibsen's Dramatic Works up to 1882.

Joan Mosenfelder Pirzio-Biroli, of Baltimore, Md., A. B. Goucher College, 1947. Art.

William Thomas Pollock, of Morgantown, W. Va., A. B. West Virginia University, 1949. Psychology.

John Carpenter Raaen, Jr., of Eastport, Md., B. S. United States Military Academy, 1943. Physics.

George Pitts Raleigh, of Baltimore, Md., A. B. Princeton University, 1944. History.

An Old John Bull.

Alford Justin Rarick, of Birmingham, Ala., B. S. University of Alabama, 1949. Geology.

Gerrit Hubbard Roelofs, of Baltimore, Md., A. B. Amherst College, 1942. English.

David Richard Rosenthal, of Baltimore, Md., A. B. Haverford College, 1950. Writing, Speech and Drama.

Fiction, and the Contemporary American Novel.

Leonard Bailey Rowles, Jr., of Baltimore, Md., B. S. in Bus. The Johns Hopkins University, 1947. Political Economy.

Some Considerations of Minority Interests in Holding Company Accounting.

Donald John Sabatine, of Roseto, Pa., B. S. Lafayette College, 1950. Chemistry.

William Jasper Sando, of Baltimore, Md., A. B. The Johns Hopkins University, 1950. Geology.

Benjamin Turner Sankey, Jr., of Baltimore, Md., A. B. The Johns Hopkins University, 1950. Writing, Speech and Drama.

Cason City, and Other Stories.

Kenneth Budd Sawyer, of Oakland, Calif., A. B. Reed College, 1950. Writing, Speech and Drama.

A Room in Saturn: A Collection of Poems.

Francis William Schork, of Cleveland, Ohio, A. B. Oberlin College, 1949. Romance Languages.

James Franklin Scoggin, Jr., of State College, Miss., B. S. Mississippi State College, 1941; B. S. United States Military Academy, 1944; C. E. E. University of Grenoble, France, 1945. Physics.

Dudley Marvin Shoemaker, of Baltimore, Md., Ph. B. Loyola College, 1948. History.

Commerce and Security as Factors in Australian-American Relations, 1919-1922.

Harold Shulman, of Washington, D. C., A. B. George Washington University, 1948. Mathematics.

Joseph Francis Smeall, of Tacoma, Wash., A. B. University of Washington, 1941. English.

Jean Gillen Smith, of Baltimore, Md., A. B. Goucher College, 1950. Chemistry.

Helmut Sonnenfeldt, of Sykesville, Md., A. B. The Johns Hopkins University, 1950. Political Science.

The Bundesrat of Bonn.

Charles Junior Standish, of Greene, N. Y., A. B. Hamilton College, 1949. Mathematics.

Mary Blanche Stewart, of Baltimore, Md., A. B. Vassar College, 1937. Writing, Speech and Drama.

Bernard Shaw's Cockney.

John Herman Sullivan, of Eugene, Ore., A. B. University of Oregon, 1949. German.

The 14th Century German Version of Marco Polo's Travelogue.

Edward Henry Taliaferro, of Annapolis, Md., A. B. University of Alabama, 1943. Writing, Speech and Drama.

Heart of Stone, and other Stories.

Floyd O'Neill Thomas, of Baltimore, Md., A. B. Western Maryland College, 1949. Philosophy.

Leon Emanuel Trachtman, of Brooklyn, N. Y., A. B. Hamilton College, 1948. English.

Marshall Sayre Turner, Jr., of Baldwin, Md., A. B. University of the South, 1937. Education.

Leonard Merrick Uhr, of Washington, D. C., A. B. Princeton University, 1949. Writing, Speech and Drama.

A Collection of Short Stories.

Peter Granger Van Der Poel, of Baltimore, Md., A. B. Yale University, 1913. History.

Count Stephen of Blois, Crusader.

William Bentley Walker, of Ruxton, Md., A. B. Harvard University, 1944. History of Medicine.

Dr. John Crawford of Baltimore (1746-1813).

John Bruno Wolff, of Baltimore, Md., A. B. Hunter College, 1950. Chemistry.

John Miller Zinkand, of E. Hempstead, N. Y., A. B. Wheaton College, 1950. Classics.

DOCTORS OF PHILOSOPHY

WITH TITLES OF DISSERTATIONS

Robert Clark Axtmann, of Youngstown, Ohio, A. B. Oberlin College, 1947, M. A. The Johns Hopkins University, 1949. Chemistry.

A Dielectric Constant Method for Kinetic Studies.

Lloyd Mumbauer Beidler, of Tallahasse, Fla., B. S. Muhlenberg College, 1943. Biophysics.

An Electrophysiological Study of the Response of Chemoreceptors of the Tongue of the Rat to Salt Stimulation.

Herbert William Benario, of Flushing, Long Island, N. Y., A. B. College of the City of New York, 1948; M. A. Columbia University, 1949. Classics.

The Sources of Pseudo-Asconius.

Joseph Felix Campagnolo, of Westwood, N. J., B. Ch. E. New York University, 1942; M. S. Ch. E., 1947. Chemical Engineering.

Simultaneous Reaction and Distillation.

William Gilmour Carson, of Baltimore, Md., A. B. Swarthmore College, 1944; M. Ch. E. The Johns Hopkins University, 1948. Chemical Engineering.

A Study of the Effect of an Electric Field on Adhesion to Metals.

James Frederick Case, of Baltimore, Md. Biology.

The Effects of Decapitation on the Functional Development of the Adrenal Cortex in the Chick Embyro

John Somerset Chipman, of Montreal, P. Q., Canada, A. B. McGill University, 1947; M. A. 1948. Political Economy.

The Theory of Inter-Sectoral Money Flows and Income Formation.

Calvin Miller Class, of Baltimore, Md., A. B. The Johns Hopkins University, 1943. Physics.

The Angular Correlation in the $Li^6(d\ p')Li^{7*}(8)\ Li^7$ Reaction.

Werner Victor Cohen, of Baltimore, Md., B. Sc. London University, 1944; M. A. The Johns Hopkins University, 1948. Chemistry.

A Study of Betaine Intermediates in a Proposed Synthesis of Ergothioneine.

Harry Edward Crawford, of Athens, W. Va., B. S. Athens College, 1946; M. A. The Johns Hopkins University, 1948. Chemistry.

The Conductance of Various Coordination Compounds of Aluminum Chloride in Nitrobenzene at 25°.

Samuel Preston Cunningham, III, of Lake Charles, La., B. S. Louisiana State University, 1943. Physics.

Some Higher Electronic States in the Molecular Spectrum of Hydrogen and its Isotopes.

Mitchell Joseph Dahood, S. J., of Weston, Mass., A. B. Boston College, 1947; M. A. 1948; M. A. The Johns Hopkins University, 1949. Oriental Seminary.

Canaanite-Phoenician Influence in Qoheleth.

Stanley Myron Davis, of Baltimore, Md., B. S. University of Michigan, 1946; M. A. 1948. Chemistry.

A Study of the Reductive Amination of Some Aldehydes and Ketones.

Karl Denner, of Öhringen, Germany, M. A. University of Kentucky, 1949. English.

The Dative of Accompaniment in Old English Poetry.

Sheldon Holland Dike, of Atlantic City, N. J., B. S. E. E. University of New Mexico, 1941. Electrical Engineering.

The Cylindrical Dipole as a Receiving Antenna.

Stanley Austin Dunn, of Laguna Beach, Calif., B. S. California Institute of Technology, 1943; M. A. The Johns Hopkins University, 1948. Chemistry.

The Use of the Dilatometer in the Study of Chemical Reaction Kinetics.

Harry Augustine Durney, Jr., of Baltimore, Md., B. E. The Johns Hopkins University, 1947; M. A. 1948. Chemistry.

A New Thermodynamic Theory of Surface Energy.

Robert Eisner, of Urbana, Ill., B. S. S. College of the City of New York, 1940; M. A. Columbia University, 1942. Political Economy.

Growth, Investment, and Business Cycles: A Critique and Development of Some Recent Theories.

Douglas David Feaver, of Toronto, Ont., Canada, A. B. Victoria College, University of Toronto, 1948; M. A. The Johns Hopkins University, 1949. Classics.

Athenian Priesthoods: Their Historical Development from Earliest Time to the Rise to Power of Demetrios of Phaleron.

Clarence James Glacken, of Baltimore, Md., A. B. University of California, 1930; M. A. 1931. Geography.

The Idea of the Habitable World: A Study of the Influence, in Modern Times, of Theories of Population Growth, of Geographic Ideas, of Concepts of the Soils, and of Interpretations of Nature on Thought Concerning the Relationship of Human Culture to the Environment.

Victor Roland Gold, of Alice, Tex., A. B. Wartburg College, 1945; B. D. Wartburg Theological Seminary, 1946. Oriental Seminary.

Studies in History and Culture of Edom.

Jerome Grossman, of Peekskill, N. Y., B. Ch. E. Brooklyn Polytechnic Institute, 1944; M. S. E. The Johns Hopkins University, 1948. Chemical Engineering.

A Study of the Kinetics and Mechanism of Low Temperature Oxidation of Popcorn Polymer.

Stephen Joseph Groszos, of Stamford, Conn., A. B. New York University, 1946; M. A. Johns Hopkins University, 1948. Chemistry.

I. Studies on the Mold Metabolites Citrinin and Citromycetin.

II. The Dimers and other Polymeric Products of the Aldoketenes.

Maurice Howard Halstead, of San Diego, Calif., A. B. University of California, 1940. Geography.

The Relationship between Wind Structure and Turbulence near the Ground.

Robert Bruce Hand, of Towson, Md., B. S. Virginia Polytechnic Institute, 1942; M. A. The Johns Hopkins University, 1948. Chemistry.

An Investigation of Some Anomalous Hydronium Ion Activities in Aqueous Systems of Silica and Alumina Ultragels.

Bryant Eugene Harrell, Jr., of Norfolk, Va., B. S. Randolph Macon College, 1943; M. A. The Johns Hopkins University, 1944. Chemistry.

Pyrocoll Derivatives. Determination of Alkoxy Groups.

Leo Anthony Herrmann, of Dundee, Fla., B. S. University of Miami, 1947. Geology.

The Structural Geology and Petrology of the Stone Mountain-Lithonia District, Georgia.

Edward Shilling Hodgson, Jr., of Baltimore, Md., B. S. Alleghany College, 1947. Biology.

Chemoreception in *Laccophilus*.

Samuel Iwry, of Baltimore, Md., Teachers College, Wilno, Poland. Oriental Seminary.

The Damascus Document and the Dead Sea Scrolls.

Fred Scott Jensen, of Denver, Colo., A. B. University of Rochester, 1942. Geology.

Preliminary Report on the Geology of the Nashua Quadrangle, Montana.

Hans Juergensen, of Baltimore, Md. B. S. Upsala College, 1942. German.

The Use of the Symbol in the Prose Works of Conrad Ferdinand Meyer.

George Gehret Kleinspehn, Md., A. B. Colgate University, 1944; M. A. The Johns Hopkins University, 1947. Chemistry.

Intermediates for the Synthesis of Chlorophyll-Type Porphyrins.

Michael Leyzorek, of Baltimore, Md., B. S. College of the City of New York, 1942; M. A. The Johns Hopkins University, 1949. Psychology.

Two-Point Discrimination in Visual Space as a Function of the Temporal Interval between the Stimuli.

John Russell Mather, of Cotuit, Mass., A. B. Williams College, 1946; B. S. Massachusetts Institute of Technology, 1947; M. S. 1948. Geography.

Pleistocene Climates and their Effect on the New World Migration of Ancient Man.

Robert Altwig McCleary, of Dayton, Ohio, A. B. Harvard University, 1944; M. D. The Johns Hopkins University, 1947. Psychology.

A Physiological Mechanism of Sugar Preference.

T. King McCubbin, Jr., of Baltimore, Md., B. E. E. University of Louisville, 1946. Physics.

Far Infrared Spectroscopy from 100 to 700 Microns.

Elmer S. McKee, of Baltimore, Md. A. B. Gettysburg College, 1945; M. A. The Johns Hopkins University, 1949. Chemistry.

The Absolute Entropy of the Chloride Ion as Determined by Thermocell Measurements.

Richard William McQuaid, of Towson, Md., A. B. University of California, 1943; M. A. The Johns Hopkins University, 1949. Chemistry.

The Electrical Conductance of Highly Desiccated Gels of Silica and Alumina.

Eugene Francis Murphy, of Baltimore, Md., A. B. University of Toronto, 1941; M. A. University of Houston, 1942. Romance Languages.

An Interpretation of Mauriac's Realism.

Joseph Alfred Neuendorffer, of Alexandria, Va., S. B. Massachusetts Institute of Technology, 1941; S. M. 1941. Physics.

The Angular Yield of Deuterons and Alphas from the Proton Bombardment of Be^9.

Alfred Nisonoff, of Baltimore, Md., B. S. Rutgers University, 1942; M. A. The Johns Hopkins University, 1948. Chemistry.

Kinetics of the Transaminase Reactions.

Frederick Dorrance Ogden, of University, Ala., A. B. Tusculum College, 1938. Political Science.

The Poll Tax in the South.

Charles Harvey Palmer, Jr., of Lewisburg, Pa., B. S.

Harvard College, 1941; M. A. Harvard University, 1945. Physics.

An Experimental Study of the Anomalous Behavior of Diffraction Gratings.

John Alexander Parkins, of Terre Hill, Pa., A. B. Washington and Lee University, 1939; M. A. The Johns Hopkins University, 1949. Chemistry.

The Interaction of Water with Aluminum Bromide and the Activity of the Reaction Products in Friedel-Crafts Reactions.

Wilfred Dudley Parkinson, of Washington, D. C., B. Sc. University of West Australia, 1942. Physics.

Part I—Dynamic Characteristics of Glow Discharges in the Rare Gases at Ultrasonic Frequencies.

Part II—The Formation of Molecular Helium in an Alternating Current Glow Discharge.

Edith Tilton Penrose, of Baltimore, Md., A. B. University of California, 1936; M. A. The Johns Hopkins University, 1948. Political Economy.

The Economics of the International Patent System.

Arline Fearon Preston, of Albany, N. Y., A. B. Bryn Mawr College, 1920; M. A. 1921. French and Philosophy.

Primitivism in French Literature of the Sixteenth Century.

Ervin Garrison Pritchett, of Washington, Pa., B. S. The Citadel, 1941; M. A. The Johns Hopkins University, 1948. Chemistry.

Metabolic Products of *Neurospora Crassa* in the Presence of Para-Aminobenzoic Acid.

Claud Stanley Rupert, of Exeter, Calif., B. S. California Institute of Technology, 1941. Physics.

A High Temperature Source for Infrared Spectroscopy with an Application to the Pressure Broadening of N_2O at 8.6μ.

William Edgworth Thompson, of Baltimore, Md., B. S. University of Alabama, 1941; M. A. The Johns Hopkins University, 1949. Chemistry.

A Study of the Standard Electrode Potential of the Iron-Ferrous Ion Couple.

Christopher Van Hollen, of Baltimore, Md., A. B. Haverford College, 1947. Political Science.

The House Rules Committee (1933-1951): Agent of Party and Agent of Opposition.

Arthur Wouk, of Flushing, L. I., N. Y., B. S. College of the City of New York, 1943; M. A. The Johns Hopkins University, 1947. Mathematics.

Difference Equations and J-Matrices.

John Michael Wozniak, of Chicago, Ill., A. B. St. Peter's College, 1938; M. A. Fordham University, 1942. Education.

English Composition in Eastern Colleges, 1850-1940.

William Finley Wright, of Washington, D. C., B. S. University of the South, 1938; M. A. The Johns Hopkins University, 1946. Chemistry.

A New Comparison Type Nephelometer and Its Application to the Study of the Formation and the Structure of Silica Hydrogel.

Henry Thomas Yost, Jr., of Baltimore, Md., A. B. The Johns Hopkins University, 1947. Biology.

An Analysis of Combined Infrared and X-Ray Effects on Tradescantia Chromosomes.

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